EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	8	(("6493701") or ("5752025") or ("20020013030") or ("6065011")). PN.	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	OFF	2006/08/20 11:04
L2	8	(("6493701") or ("5752025") or ("20010013030") or ("6065011")). PN.	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	OFF	2006/08/20 11:05
L3	57473	(sort$4 or categor$4) same (table$1 or (column$1) or (table near column$1))	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/08/20 11:06
L4	36292	3 and @ad<"20030820"	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/08/20 11:07
L5	13053	4 and (index$3 or (dynamic near index$3))	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/08/20 11:07
L6	44	4 and ((dynamic near index$3))	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/08/20 11:07
L7	19	6 and (sot$3 or arrang$3 or ranking)	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/08/20 11:08
L8	42	6 and (sort$3 or arrang$3 or ranking)	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/08/20 11:08

L9	20	8 and (monitor$3)	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/08/20 11:08
L10	0	707/1,3,6,10,100,102	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/08/20 11:09
L11	23441	(707/1,3,6,10,100,102).ccls.	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/08/20 11:09
L12	22	11 and 8	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/08/20 11:09

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Set      Items    Description
S1       851124   COLUMN? ? OR FIELD? ?
S2         6109   (SET OR SETS OR GROUP? ? OR COLLECTION? ?)(3W)S1
S3        12164   (SOME OR SELECTION OR FEW OR NUMBER OR QUANTITY OR SEVERAL-
                  )(3W)S1
S4          852   (SORT? ? OR SORTED OR SORTING OR ORDER? ? OR ORDERED OR OR-
                  DERING OR ARRANGE? ? OR ARRANGING )(5N)(S2 OR S3)
S5           80   (CATEGORY?E? ? OR CATEGORI?ING OR CATEGORY OR CATEGORIES OR
                  CATEGORI?ATION  OR CLASS OR CLASSES OR CLASSIFICATION OR CLA-
                  SSIFY OR CLASSIFIES OR CLASSIFIED OR CLASSIFYING)(5N)(S2 OR S-
                  3)
S6         4461   (MARK? ? OR MARKED OR MARKING OR FLAG? ? OR FLAGGED OR FLA-
                  GGING)(10N)S1
S7           89   (INDEX OR INDEXING OR INDEXED)(10N)(S2 OR S3)
S8          711   (MINI OR SECOND OR 2ND OR ANOTHER OR EXTRA OR SUB OR AUXIL-
                  IARY OR SUPPLEMENTARY OR SUB)()INDEX
S9            0   (S4 OR S5) AND S6 AND (S7 OR S8)
S10          14   (S4 OR S5) AND  (S7 OR S8)
S11          14   IDPAT (sorted in duplicate/non-duplicate order)
S12          14   IDPAT (primary/non-duplicate records only)
? show files
File 347:JAPIO Nov 1976-2005/Oct(Updated 060203)
        (c) 2006 JPO & JAPIO
File 350:Derwent WPIX 1963-2006/UD,UM &UP=200612
        (c) 2006  Thomson Derwent
```

015188113   **Image available**
WPI Acc No: 2003-248647/200324
XRPX Acc No: N03-197518
  **Classifying binary strings e.g. IP data packets for maintaining servicing
  level agreements in Internet communications based on IP address
  specifications in packet headers**
Patent Assignee: NOKIA CORP (OYNO); EKLUND C (EKLU-I); HEINER A (HEIN-I)
Inventor: EKLUND C; HEINER A
Number of Countries: 098 Number of Patents: 004
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
WO 200321906	A1	20030313	WO 2001EP9960	A	20010829	200324	B
EP 1423957	A1	20040602	EP 2001965229	A	20010829	200436	
			WO 2001EP9960	A	20010829		
AU 2001285915	A1	20030318	AU 2001285915	A	20010829	200452	
			WO 2001EP9960	A	20010829		
US 20040243563	A1	20041202	WO 2001EP9960	A	20010829	200481	
			US 2004488180	A	20040413		

Priority Applications (No Type Date): WO 2001EP9960 A 20010829
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
WO 200321906	A1	E	34	H04L-029/06	

    Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA
    CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN
    IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ
    PH PL PT RO RU SD SE SG SI SK TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW
    Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR
    IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZ UG ZW

EP 1423957	A1	E		H04L-029/06	Based on patent WO 200321906

    Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT
    LI LT LU LV MC MK NL PT RO SE SI TR

AU 2001285915	A1			H04L-029/06	Based on patent WO 200321906
US 20040243563	A1			G06F-007/00	

Abstract (Basic): WO 200321906 A1
     NOVELTY - Involves searching search tree for **several**
classification   fields based on a matching procedure. An **index**
value is obtained in a leaf node of the search tree for each
classification field. The index values thus obtained in the searching
step are used to derive a policy to be applied to the data packet. The
number of index values is reduced by combining intermediate results of
the searching with results of the policy derivation.
     DETAILED DESCRIPTION - An INDEPENDENT CLAIM is included for a
network element.
     USE - For classification of bit strings e.g. IP data packets on a
per-flow basis for maintaining servicing level agreements in Internet
communications based on IP address specifications in packet headers.
     ADVANTAGE - Improves computational efficiency and reduces memory
requirements.
     DESCRIPTION OF DRAWING(S) - The drawing shows a block diagram of a
router adapted to implement the method.
     pp; 34 DwgNo 1/5
Title Terms: CLASSIFY; BINARY; STRING; IP; DATA; PACKET; MAINTAIN; SERVICE;
  LEVEL; COMMUNICATE; BASED; IP; ADDRESS; SPECIFICATION; PACKET; HEADER
Derwent Class: T01; W01
International Patent Class (Main): G06F-007/00; H04L-029/06
File Segment: EPI

012589391   **Image available**
WPI Acc No: 1999-395498/199933
Related WPI Acc No: 1999-395493; 1999-395494; 1999-395495; 1999-395496;
  1999-395497; 1999-395500; 1999-395502; 1999-405226
XRPX Acc No: N99-295598
  Generating database table indexes
Patent Assignee: LEARMONT T R (LEAR-I); NG T C T (NGTC-I); SUN MICROSYSTEMS
  INC (SUNM); BAAN DEV BV (BAAN-N)
Inventor: LEARMONT T R; NG T C T
Number of Countries: 084 Number of Patents: 007
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
WO 9933002	A1	19990701	WO 98US27243	A	19981221	199933	B
AU 9919389	A	19990712	AU 9919389	A	19981221	199950	
EP 1042720	A1	20001011	EP 98964210	A	19981221	200052	
			WO 98US27243	A	19981221		
JP 2001527243	W	20011225	WO 98US27243	A	19981221	200204	
			JP 2000525838	A	19981221		
EP 1042720	B1	20020403	EP 98964210	A	19981221	200230	
			WO 98US27243	A	19981221		
US 6374256	B1	20020416	US 9768415	P	19971222	200232	
			US 98106188	A	19980629		
DE 69804673	E	20020508	DE 604673	A	19981221	200238	
			EP 98964210	A	19981221		
			WO 98US27243	A	19981221		

Priority Applications (No Type Date): US 98106188 A 19980629; US 9768415 P
  19971222
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
WO 9933002	A1	E	36	G06F-017/30	

   Designated States (National): AL AM AT AU AZ BA BB BG BR BY CA CH CN CU
   CZ DE DK EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC
   LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL
   TJ TM TR TT UA UG UZ VN YU ZW
   Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR
   IE IT KE LS LU MC MW NL OA PT SD SE SZ UG ZW

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
AU 9919389	A				Based on patent WO 9933002
EP 1042720	A1	E		G06F-017/30	Based on patent WO 9933002

   Designated States (Regional): DE FR GB

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
JP 2001527243	W		46	G06F-017/30	Based on patent WO 9933002
EP 1042720	B1	E		G06F-017/30	Based on patent WO 9933002

   Designated States (Regional): DE FR GB

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 6374256	B1			G06F-017/30	Provisional application US 9768415
DE 69804673	E			G06F-017/30	Based on patent EP 1042720
					Based on patent WO 9933002

Abstract (Basic): WO 9933002 A1
     NOVELTY - Method consists in selecting classes with data to be
  indexed in the database, determining whether data in the classes
  correspond to more than one table and generating an index for the data
  in the **classes** based on the determination. A **set** of **fields** is
  selected for **indexing** and unique indexes are generated based upon
  determination of whether they are unique.
     DETAILED DESCRIPTION - There are INDEPENDENT CLAIMS for (1) a
  computer program for configuring a data processor and (2) an index
  generator.
     USE - Method is for creating indexes in a relational database
  corresponding to classes in an object-oriented application.
     DESCRIPTION OF DRAWING(S) - The drawing shows a flowchart of index
  generation.

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        pp; 36 DwgNo 11/11
Title Terms: GENERATE; DATABASE; TABLE; INDEX
Derwent Class: T01
International Patent Class (Main): G06F-017/30
International Patent Class (Additional): G06F-009/44; G06F-012/00
File Segment: EPI
```

011981591   **Image available**
WPI Acc No: 1998-398501/199834
XRPX Acc No: N98-310058
  **Multilingual information storing and retrieving method in networked
  computer system - involves separating data fields into two sets of which
  second set is maintained in native character set, while first set is
  translated from native character set to universal character set**
Patent Assignee: MICROSOFT CORP (MICR-N)
Inventor: BENSON M L; NORIN S; SHAKIB D A
Number of Countries: 001 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
US 5778213	A	19980707	US 96678994	A	19960712	199834	B

Priority Applications (No Type Date): US 96678994 A 19960712
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 5778213	A		8	G06F-017/30	

Abstract (Basic): US 5778213 A
     The method involves receiving from one client station a database
record comprising a number of data fields containing data in a native
character set for a given language. Then, each data fields are
separated into first and second set. The first set includes only those
data fields from which the database record is sorted. The second data
contains the remaining data field of the data record. The data fields
of the second set is then stored into the database such that the second
set data is maintained in the native character set.
     Then, the data field of first data set is translated into a
universal character set and stored the translated data into the
database. Then, portion of first **set** of data **fields** is **sorted** to
generate **index** based on request from client station for an index of
portion of database stored according to user specified language rules.
Then, the requested index is transmitted to the client station.
     ADVANTAGE - Reduces memory capacity. Reduces burden on client and
network administrator. Prevents error created in character set
conversion.
     Dwg.1/4
Title Terms: INFORMATION; STORAGE; RETRIEVAL; METHOD; COMPUTER; SYSTEM;
  SEPARATE; DATA; FIELD; TWO; SET; SECOND; SET; MAINTAIN; NATIVE; CHARACTER
  ; SET; FIRST; SET; TRANSLATION; NATIVE; CHARACTER; SET; UNIVERSAL;
  CHARACTER; SET
Derwent Class: T01
International Patent Class (Main): G06F-017/30
File Segment: EPI

12/5/5   (Item 5 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2006 Thomson Derwent. All rts. reserv.

011320828   **Image available**
WPI Acc No: 1997-298732/199728
XRPX Acc No: N97-246894
   Classifying large volumes of raw data entries according to data patterns
   e.g. for sorting, summarising and reporting - reading data entry records
   group from data entry records, tallying key number **of total** number **of**
   key fields **in data entry records group, creating** index **record having**
   set   number **of key** fields **equal to key number and pointer**
Patent Assignee: SAMPSON W C (SAMP-I)
Inventor: SAMPSON W C
Number of Countries: 001 Number of Patents: 001
Patent Family:
Patent No   Kind   Date   Applicat No   Kind   Date   Week
CA 2183024   A   19970212 CA 2183024   A   19960809 199728 B

Priority Applications (No Type Date): US 95514195 A 19950811
Patent Details:
Patent No Kind Lan Pg   Main IPC   Filing Notes
CA 2183024   A   21 G06F-017/40

Abstract (Basic): CA 2183024 A
     Each data entry records group has at least one of the data entry
records with at least one key field containing an item. There is a
master list of items in the raw data to be indexed. A data entry
records group is read and a tally of a key number representing a total
number of the key fields in the data entry records group is generated.
In **some** cases, the key **fields** are **sorted** in a predetermined
sequence, duplicate key fields are removed and the key number is
adjusted for the key fields removed.
     An **index** record having a predetermined **number** of key **fields**
equal to the key number and a first pointer related to instructions for
processing any other data entry records group having the same
combination of key fields is generated. Each item in the key fields of
the data entry records group is mapped to generate a corresponding item
indicator in the key fields of the index record. If the index record
matches an existing index record, the instructions related to the first
pointer are executed. If the index record is new, a second pointer is
added related to a location of the data entry records group in the data
entry records.
     USE/ADVANTAGE - For indexing data entry records groups in raw data
entry records. P1 pointer in each index record allows programmer to
specify program action for given patterns of data using additional
instructions to simplify some programs.
     Dwg.4/4
Title Terms: CLASSIFY; VOLUME; RAW; DATA; ENTER; ACCORD; DATA; PATTERN;
  SORT; SUMMARY; REPORT; READ; DATA; ENTER; RECORD; GROUP; DATA; ENTER;
  RECORD; KEY; NUMBER; TOTAL; NUMBER; KEY; FIELD; DATA; ENTER; RECORD;
  GROUP; INDEX; RECORD; SET; NUMBER; KEY; FIELD; EQUAL; KEY; NUMBER; POINT
Derwent Class: T01
International Patent Class (Main): G06F-017/40
International Patent Class (Additional): G06F-007/08
File Segment: EPI

DIALOG(R)File 350:Derwent WPIX
(c) 2006 Thomson Derwent. All rts. reserv.

009770563   **Image available**
WPI Acc No: 1994-050414/199407
Related WPI Acc No: 1992-383947
XRPX Acc No: N94-039730
  **Computer entity-relation database method for monitored mfg. process -
  using linked list to define relationship between data elements between
  each of predefined sets and retrieving all of elements of any selected
  predefined set from two entity fields**
Patent Assignee: AUTOMATED TECHNOLOGY ASSOC INC (AUTO-N); PRAEDICTUS CORP
  (PRAE-N)
Inventor: LAYDEN D J; LAYDEN J E; PEARSON T A
Number of Countries: 021 Number of Patents: 010
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
EP 583108	A2	19940216	EP 93305969	A	19930728	199407	B
AU 9344311	A	19940203	AU 9344311	A	19930729	199411	
CA 2100599	A	19940131	CA 2100599	A	19930715	199416	
EP 583108	A3	19940608	EP 93305969	A	19930728	199526	
AU 664763	B	19951130	AU 9344311	A	19930729	199604	
US 5560006	A	19960924	US 91700548	A	19910515	199644	
			US 92922491	A	19920730		
			US 95436786	A	19950508		
MX 186404	B	19971014	MX 934557	A	19930728	199901	
CA 2100599	C	20001017	CA 2100599	A	19930715	200058	
EP 583108	B1	20020123	EP 93305969	A	19930728	200207	
DE 69331483	E	20020314	DE 631483	A	19930728	200226	
			EP 93305969	A	19930728		

Priority Applications (No Type Date): US 92922491 A 19920730; US 91700548 A
  19910515; US 95436786 A 19950508
Cited Patents: No-SR.Pub; 5.Jnl.Ref; EP 114944; EP 389151
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
EP 583108	A2	E	25	G06F-015/40	

    Designated States (Regional): AT BE CH DE DK ES FR GB GR IE IT LI LU MC
    NL PT SE

AU 9344311	A			G06F-015/40	
CA 2100599	A			G06F-015/46	
EP 583108	A3			G06F-015/40	
AU 664763	B			G06F-015/40	Previous Publ. patent AU 9344311
US 5560006	A		18	G06F-017/30	CIP of application US 91700548
					Cont of application US 92922491
					CIP of patent US 5339257
MX 186404	B			G06F-015/040	
CA 2100599	C	E		G06F-015/40	
EP 583108	B1	E		G06F-017/30	

    Designated States (Regional): AT BE CH DE DK ES FR GB GR IE IT LI LU MC
    NL PT SE

DE 69331483	E			G06F-017/30	Based on patent EP 583108

Abstract (Basic): EP 583108 A
      The method of handling pre-defined sets of related information
    involves constructing a database including a
      number of entity fields, and adding data elements to the database
    such that elements of each of the predefined sets are located in at
    least two of the entity fields. Then, associating with each element of
    a second entity field an address for a first and a last related element
    in a first entity field the set of all such addresses for these
    elements forming together a head of a linked list. Next, associating
    with each element of the first entity field addresses for the next
    related and previous elements. The set of all such addresses for the

next and previous related elements forms a continuation of a linked list.
　　　Then, indexing the data elements in at least the second entity field in an order related to a selected characteristic of the data elements within the indexed entity field. Finally, retrieving a selected one of the predefined sets of elements from the entity fields using a binary search.
　　　ADVANTAGE - Can complete data access and retrieval in every instance, and even in worst case operates within chosen time limit.
　　　Dwg.2/2
Title Terms: COMPUTER; ENTITY; RELATED; DATABASE; METHOD; MONITOR; MANUFACTURE; PROCESS; LINK; LIST; DEFINE; RELATED; DATA; ELEMENT; PREDEFINED; SET; RETRIEVAL; ELEMENT; SELECT; PREDEFINED; SET; TWO; ENTITY ; FIELD
Derwent Class: T01
International Patent Class (Main): G06F-015/040; G06F-015/40; G06F-015/46; G06F-017/30
International Patent Class (Additional): G06F-012/008; G06F-012/08; G06F-015/020; G06F-015/419
File Segment: EPI

009375457   **Image available**
WPI Acc No: 1993-068935/199309
XRPX Acc No: N93-052911
  Data processing system for execution of outer join operations - responds
  to values in selected set of columns of outer table, to determine number
  of responsible regions of inner table
Patent Assignee: INT BUSINESS MACHINES CORP (IBMC)
Inventor: CHENG J; MOHAN C; PIRAHESH M H
Number of Countries: 001 Number of Patents: 004
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
EP 529916	A2	19930303	EP 92307535	A	19920818	199309	B
EP 529916	A3	19931020	EP 92307535	A	19920818	199510	
US 5551031	A	19960827	US 91749088	A	19910823	199640	
			US 94325942	A	19941019		
			US 95487300	A	19950607		
US 5557791	A	19960917	US 91749088	A	19910823	199643	
			US 94325942	A	19941019		

Priority Applications (No Type Date): US 91749088 A 19910823
Cited Patents: No-SR.Pub; 3.Jnl.Ref; EP 421408
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
EP 529916	A2	E	24	G06F-015/40	
US 5551031	A		26	G06F-017/30	Cont of application US 91749088
					Div ex application US 94325942
US 5557791	A		27	G06F-017/30	Cont of application US 91749088
EP 529916	A3			G06F-015/40	

Abstract (Basic): EP 529916 A
      The system has a device for storing tables consisting of a number
  of tuples having multiple columns. An outer join operation is perferred
  on two such tables, one table being an inner table and the other an
  outer. The outer table is ordered or **indexed** in a **sorted** sequence
  on a selected **set** of **columns** .
      A device, responsive to values in the selected set of columns,
  determine a number of responsibility regions in the inner table such
  that every tuple in the inner table belongs to one and only one region.
  The tuples of the inner table are processed in each responsibility
  region by outputting all tuples which belong to the region.
      ADVANTAGE - Is capable of outputting all tuples of inner table in
  output of join operation without requiring sorting of inner table.
      Dwg. 2/3
Title Terms: DATA; PROCESS; SYSTEM; EXECUTE; OUTER; JOIN; OPERATE; RESPOND;
  VALUE; SELECT; SET; COLUMN; OUTER; TABLE; DETERMINE; NUMBER; RESPONSIBLE;
  REGION; INNER; TABLE
Derwent Class: T01
International Patent Class (Main): G06F-015/40
File Segment: EPI

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Set      Items    Description
S1      1094821   COLUMN? ? OR FIELD? ?
S2        18822   (SET OR SETS OR GROUP? ? OR COLLECTION? ?)(3W)S1
S3        35770   (SOME OR SELECTION OR FEW OR NUMBER OR QUANTITY OR SEVERAL-
                  )(3W)S1
S4         1869   (SORT? ? OR SORTED OR SORTING OR ORDER? ? OR ORDERED OR OR-
                  DERING OR ARRANGE? ? OR ARRANGING )(5N)(S2 OR S3)
S5          590   (CATEGORY?E? ? OR CATEGORY?ING OR CATEGORY OR CATEGORIES OR
                  CATEGORY?ATION  OR CLASS OR CLASSES OR CLASSIFICATION OR CLA-
                  SSIFY OR CLASSIFIES OR CLASSIFIED OR CLASSIFYING)(5N)(S2 OR S-

                  3)
S6        15949   (MARK? ? OR MARKED OR MARKING OR FLAG? ? OR FLAGGED OR FLA-
                  GGING)(10N)S1
S7          794   (INDEX OR INDEXING OR INDEXED)(10N)(S2 OR S3)
S8         2044   (MINI OR SECOND OR 2ND OR ANOTHER OR EXTRA OR SUB OR AUXIL-
                  IARY OR SUPPLEMENTARY OR SUB)()INDEX
S9            4   (S4 OR S5)(30N) S6 (30N)(S7 OR S8)
S10           4   IDPAT (sorted in duplicate/non-duplicate order)
S11           4   IDPAT (primary/non-duplicate records only)
S12          26   (S4 OR S5)(30N)(S7 OR S8)
S13          23   S12 NOT S11
S14          23   IDPAT (sorted in duplicate/non-duplicate order)
S15          22   IDPAT (primary/non-duplicate records only)
File 348:EUROPEAN PATENTS 1978-2006/Feb W02
         (c) 2006 European Patent Office
File 349:PCT FULLTEXT 1979-2006/UB=20060216,UT=20060209
         (c) 2006 WIPO/Univentio
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DIALOG(R)File 348:EUROPEAN PATENTS

01914096
A client-server system and a method to customize a user application for accessing a database
Client-Server-System und Verfahren zur Anpassung von Anwenderprogrammen zum Zugriff von einer Datenbank
Systeme client-serveur et procede pour la personnalisation d'une application d'acces a une base de donnees
PATENT ASSIGNEE:
  SAP Aktiengesellschaft, (2635751), Neurottstrasse 16, 69190 Walldorf, (DE), (Applicant designated States: all)
INVENTOR:
  Steinmaier, Carola, Schriesheimerstrasse 27a, 69221 Dossenheim, (DE)
  Brinkmoller, Bernhard, Lederschenstrasse 48, 69168 Wiesloch, (DE)
LEGAL REPRESENTATIVE:
  Hossle Kudlek & Partner (101842), Patentanwalte, Postfach 10 23 38, 70019 Stuttgart, (DE)
PATENT (CC, No, Kind, Date): EP 1544750 A1   050622 (Basic)
APPLICATION (CC, No, Date):   EP 2003029402 031219;
DESIGNATED STATES: AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; HU; IE; IT; LI; LU; MC; NL; PT; RO; SE; SI; SK; TR
EXTENDED DESIGNATED STATES: AL; LT; LV; MK
INTERNATIONAL PATENT CLASS (V7): G06F-017/30

ABSTRACT EP 1544750 A1
    A method for setting up a customizable client-server system (10) comprising one of the two steps of custom selecting search data fields from a proposed variety of selectable search data fields in order to create a user interface search mask and of custom selecting archive fields from a proposed variety of selectable archive fields of an archive database (20), the method further comprising the step of performing an automatic linking procedure between a. the fields selected during said step of custom selecting from one of the two varieties of selectable fields and b. the whole of the variety of the respective other one of the two varieties of selectable fields in order to identify and automatically generate a list of corresponding respective fields of the other one of the two varieties.
ABSTRACT WORD COUNT: 132
NOTE:
  Figure number on first page: 3

LEGAL STATUS (Type, Pub Date, Kind, Text):
 Application: 050622 A1 Published application with search report
 Change: 050803 A1 Inventor information changed: 20050616
 Assignee: 051221 A1 Transfer of rights to new applicant: SAP AG
                           (7139610) Dietmar-Hopp-Allee 16 69190 Walldorf
                           DE
LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:
Available Text Language   Update   Word Count
      CLAIMS A (English)   200525   1146
      SPEC A   (English)   200525   1965
Total word count - document A   3111
Total word count - document B   0
Total word count - documents A + B   3111

...CLAIMS client-server system wherein anautomatic linking procedure is performed on the basis of a custom **selection** of data **fields** in **order** to create an archive **index** structure corresponding to said **selection** of data **fields** .

26. A method for generating a user interface set-up for archive data retrieval in...

...server system wherein an automatic linking procedure is performed on the basis of a customized **selection** of archive **index** **fields** in **order** to create a user interface screen set-up corresponding to said selection of archive index...

15/5,K/3   (Item 3 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
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01566388
Partitioned database system
Partitioniertes Datenbanksystem
Systeme partitionne de base de donnees
PATENT ASSIGNEE:
  NCR INTERNATIONAL INC., (1449480), 1700 South Patterson Boulevard,
    Dayton, Ohio 45479, (US), (Applicant designated States: all)
INVENTOR:
  Sinclair, Paul L., 1825 John St., Manhattan Beach, CA 90266, (US)
  Cohen, Steven B., 1706 Haynes Lane, Redondo Beach, CA 90278, (US)
  Pederson, Donald R., 12410 Pathos Lane, San Diego, CA 92129, (US)
LEGAL REPRESENTATIVE:
  Williamson, Brian et al (84717), NCR Limited International Patent
    Department 206 Marylebone Road, London NW1 6LY, (GB)
PATENT (CC, No, Kind, Date): EP 1302873 A2   030416 (Basic)
                              EP 1302873 A3   041027
APPLICATION (CC, No, Date):   EP 2002256960 021008;
PRIORITY (CC, No, Date): US 981613 011016
DESIGNATED STATES: DE; FR; GB
EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI
INTERNATIONAL PATENT CLASS (V7): G06F-017/30

ABSTRACT EP 1302873 A2
    Implementations of a partitioned database system and a method of using
    a database system are disclosed. One system implementation includes
    storage facilities. Each storage facility includes data from database
    table rows. The database table rows in each storage facility that
    correspond to a specific database table are logically ordered according
    to a row identifier (row ID). The row ID includes a first value that is
    based on one or more columns of the table. The row ID also includes a
    second value that is based on one or more columns of the table, which may
    be different from or the same as those on which the first value is based.
    The first value of the row ID is predominate in determining the order of
    the rows in the storage facilities. The second value determines the order
    of those rows with identical first values.
ABSTRACT WORD COUNT: 144
NOTE:
  Figure number on first page: 2

LEGAL STATUS (Type, Pub Date, Kind, Text):
 Application: 030416 A2 Published application without search report
 Change: 040825 A2 Legal representative(s) changed 20040706
 Change: 040825 A2 Legal representative(s) changed 20040706
 Search Report: 041027 A3 Separate publication of the search report
 Change: 041208 A2 Legal representative(s) changed 20041019
 Examination: 050622 A2 Date of request for examination: 20050427
LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:
Available Text Language   Update   Word Count
      CLAIMS A (English)   200316   597
      SPEC A   (English)   200316   3752
Total word count - document A   4349
Total word count - document B   0
Total word count - documents A + B   4349

...SPECIFICATION a certain column falls. For example, if an order table in
  a database has the **order   number   column** as that table's primary
  index , the partition function can correspond to the month of the order
  date. In that situation...

15/5,K/4   (Item 4 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
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01064378
METHOD AND APPARATUS FOR CREATING INDEXES IN A RELATIONAL DATABASE CORRESPONDING TO CLASSES IN AN OBJECT-ORIENTED APPLICATION
VERFAHREN UND SYSTEM ZUM ERSTELLEN VON INDIZIEN, DIE KLASSEN EINER OBJEKT-ORIENTIERTEN ANWENDUNG ENTSPRECHEN, IN EINER RELATIONALEN DATENBANK
PROCEDE ET APPAREIL DE CREATION D'INDEX DANS UNE BASE DE DONNEES RELATIONNELLE CORRESPONDANT A DES CLASSES D'UNE APPLICATION ORIENTEE OBJET
PATENT ASSIGNEE:
  Sun Microsystems, Inc., (2616582), 901 San Antonio Road, M/S UPAL01-521, Palo Alto, California 94303, (US), (Proprietor designated states: all)
INVENTOR:
  NG, Tony Chun Tung, 3716 Harlequin Terrace, Fremont, CA 94555, (US)
  LEARMONT, Timothy R., 343 Tennessee Lane, Palo Alto, CA 94306, (US)
LEGAL REPRESENTATIVE:
  Chameroy, Claude et al (14591), c/o Cabinet Malemont 42, avenue du President Wilson, 75116 Paris, (FR)
PATENT (CC, No, Kind, Date): EP 1042720 A1 001011 (Basic)
                              EP 1042720 B1 020403
                              WO 9933002 990701
APPLICATION (CC, No, Date):   EP 98964210 981221; WO 98US27243 981221
PRIORITY (CC, No, Date): US 68415 P 971222; US 106188 980629
DESIGNATED STATES: DE; FR; GB
INTERNATIONAL PATENT CLASS (V7): G06F-017/30
CITED PATENTS (EP B): WO 95/03586 A; WO 97/03406 A; US 5291583 A
CITED PATENTS (WO A): WO 9503586 A ; US 5291583 A ; WO 9703406 A
NOTE:
  No A-document published by EPO
LEGAL STATUS (Type, Pub Date, Kind, Text):
 Application: 001011 A1 Published application with search report
 Application: 990825 A1 International application. (Art. 158(1))
 Oppn None: 030326 B1 No opposition filed: 20030106
 Change: 010816 A1 Title of invention (German) changed: 20010625
 Change: 001025 A1 Inventor information changed: 20000907
 Assignee: 001025 A1 Transfer of rights to new applicant: Sun
                             Microsystems, Inc. (2616582) 901 San Antonio
                             Road, M/S UPAL01-521 Palo Alto, California
                             94303 US
 Examination: 001011 A1 Date of request for examination: 20000724
 Examination: 010314 A1 Date of dispatch of the first examination
                             report: 20010130
 Grant: 020403 B1 Granted patent
 Application: 990825 A1 International application entering European
                             phase
LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:
Available Text Language   Update   Word Count
     CLAIMS B (English)   200214   1157
     CLAIMS B (German)   200214   1219
     CLAIMS B (French)   200214   1324
     SPEC B   (English)   200214   6428
Total word count - document A   0
Total word count - document B   10128
Total word count - documents A + B 10128

...SPECIFICATION in an index group and lets tool 508 locate the
  corresponding columns and tables to **index** in the database by
  specifying. The **collection** of **fields** in the **class** or **classes**
  selected for **indexing** is called an **index** group. Generally, the user

specifies an **index** **group** based on the **fields** commonly searched or accessed by an object-oriented application.
 In the past, a conventional object...

...be indexed (state 1104). In one implementation consistent with the present invention, fields used for **indexing** are stored in a **index** group. Generally, the **index** **group** includes **fields** from a **class** or **classes** that are commonly searched or accessed.
 Tool 508 determines if fields in the index group...

...CLAIMS generated indexes being based on the determination.
 2. The method in claim 1 wherein selecting **classes** (506) further comprises selecting a **set** of **fields** in the **classes** (506) for **indexing** .
 3. The method in claim 2 wherein determining further comprises checking whether the selected **set** of **fields** in the **classes** (506) correspond to columns in more than one table of the database (502).
 4. The...

...7, wherein the processor (508) selects classes (506) and is further configured to select a **set** of **fields** in the **classes** for **indexing** .
 9. The system of claim 8, wherein the processor (508) is further configured to check whether the selected **set** of **fields** in the **classes** (502) correspond to columns in more than one table of the database (502).
 10. The...

...computer program product in claim 13 wherein selecting classes (504) further comprises the selecting a **set** of **fields** in the **classes** (502) configured to **index** .
 15. The computer program product in claim 14 wherein determining further comprises checking whether the selected **set** of **fields** in the **classes** (504) correspond to columns in more than one table of the database (502).
 16. The a **set** of **fields** in the **classes** (506) for **indexing** .
 21. The apparatus in claim 20 wherein the means for determining further comprises a means for checking whether the selected **set** of **fields** in the **classes** (506)correspond to columns in more than one table of the database (502).
 22. The...

15/5,K/6   (Item 6 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
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00774426
Remote duplicate database facility with database replication support for online line DDL operations
Ferndatenbankverdopplungsvorrichtung mit Unterstutzung zur Datenbankverviel faltigung fur Online-DDL-Operationen
Dispositif de duplication a distance de base de donnees avec support de replication de base de donnees pour des operations DDL online
PATENT ASSIGNEE:
  Compaq Computer Corporation, (687790), 20555 S.H. 249, Houston, Texas 77070-2698, (US), (Proprietor designated states: all)
INVENTOR:
  Carr, Richard W., 3462 Murdoch Court, Palo Alto, California 94306, (US)
  Garrard, Brian, The Orchard, Ferbies, Speldhurst, Kent, TN3 ONS, (GB)
  Mosher, Malcolm, Jr., 14651 Golf Links Drive, Los Gatos, California 95030 , (US)
LEGAL REPRESENTATIVE:
  Cross, Rupert Edward Blount et al (42891), BOULT WADE TENNANT, Verulam Gardens 70 Gray's Inn Road, London WC1X 8BT, (GB)
PATENT (CC, No, Kind, Date):   EP 724223   A1   960731 (Basic)
                                EP 724223   B1   010725
APPLICATION (CC, No, Date):   EP 96300437 960123;
PRIORITY (CC, No, Date): US 377152 950124; US 377881 950124
DESIGNATED STATES: DE; FR; GB; IT; SE
INTERNATIONAL PATENT CLASS (V7): G06F-017/30
CITED PATENTS (EP B): EP 600457 A; US 4875159 A

ABSTRACT EP 724223 A1
    A local computer system has a local database, application programs that modify the local database, and a transaction manager that stores audit records in a local audit trail reflecting those application program modifications to the local database. A remotely located computer system has a backup database. A remote data duplication facility (RDF) maintains virtual synchronization of the backup database with the local database. The RDF includes an extractor process executed by the local computer system, and a receiver process and a plurality of updater processes executed by the remote computer system. The extractor process extracts audit records from the local audit trail and transmits those records to the receiver process. The receiver distributes the received audit records to a plurality of image trail files in the remote computer system for processing by updater processes, which initiate redo operations of database modifications denoted in at least a subset of the audit records against the backup database. A catalog manager on the local computer system performs online database restructurings while application programs continue to modify the database. The transaction manager stores a Stop Updaters audit record in the local audit trail when each online database restructuring successfully completes. The extractor process transmits the Stop Updaters audit record to the remote computer system and the receiver process moves a copy each received Stop Updaters audit record into all of the image trails. Finally, each updater process stops execution when it reads a Stop Updaters audit record in its assigned image trail file. (see image in original document)
ABSTRACT WORD COUNT: 283
NOTE:
  Figure number on first page: 1

LEGAL STATUS (Type, Pub Date, Kind, Text):
  Assignee: 001129 A1 Transfer of rights to new applicant: Compaq
                              Computer Corporation (687790) 20555 S.H. 249
                              Houston, Texas 77070-2698 US

```
Examination:          20000216 A1 Date of dispatch of the first examination
                               report: 20000105
Oppn None:            020717 B1 No opposition filed: 20020426
Grant:                010725 B1 Granted patent
Change:               001129 A1 Legal representative(s) changed 20001011
Lapse:                020130 B1 Date of lapse of European Patent in a
                               contracting state (Country, date):  SE
                               20011025,
Application:          960731 A1 Published application (A1with Search Report
                               ;A2without Search Report)
Examination:          970319 A1 Date of filing of request for examination:
                               970116
LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:
Available Text  Language    Update      Word Count
     CLAIMS A   (English)   EPAB96         906
     CLAIMS B   (English)   200130        2095
     CLAIMS B   (German)    200130        1748
     CLAIMS B   (French)    200130        2651
     SPEC  A    (English)   EPAB96       13847
     SPEC  B    (English)   200130       14124
Total word count - document A           14755
Total word count - document B           20618
Total word count - documents A + B      35373
```

...SPECIFICATION path to the database table by ordering data according to
   the values in any specified **set**   of **columns** . That **ordering** is
   represented by an "Altemate **Index** ," which is typically implemented as
   a separate data structure from the associated database

...SPECIFICATION path to the database table by ordering data according to
   the values in any specified **set** of **columns** . That **ordering** is
   represented by an "Alternate **Index** ," which is typically implemented as
   a separate data structure from the associated database table.
     Figure...

00773090
**Relational database system and method with high data availability during
    table data restructuring**
**Relationales Datenbanksystem und Verfahren mit grosser Verfugbarkeit der
    Daten bei der Umstrukturierung von Tabellendaten**
**Systeme de gestion de base de donnees relationnelle et procede avec grande
    disponibilite de donnees pendant la restructuration de tables**
PATENT ASSIGNEE:
  Compaq Computer Corporation, (687790), 20555 S.H. 249, Houston, Texas
    77070-2698, (US), (Proprietor designated states: all)
INVENTOR:
  Maier, Donald S., 2251 Middletown Drive, Campbell, California 95008, (US)
  Marton, Roberta S., 48276 Cottonwood Street, Fremont, California 94539,
    (US)
  Troisi, James H., 837 Orange Avenue, Sunnyvale, California 94087, (US)
  Celis, Pedro, (NMI), 6607 Rain Creek Parkway, Austin, Texas 78759-6123,
    (US)
LEGAL REPRESENTATIVE:
  Cross, Rupert Edward Blount et al (42891), BOULT WADE TENNANT, Verulam
    Gardens 70 Gray's Inn Road, London WC1X 8BT, (GB)
PATENT (CC, No, Kind, Date):   EP 723238   A1   960724 (Basic)
                               EP 723238   B1   010919
APPLICATION (CC, No, Date):   EP 96300429 960123;
PRIORITY (CC, No, Date): US 377758 950123
DESIGNATED STATES: DE; FR; GB; IT; SE
INTERNATIONAL PATENT CLASS (V7): G06F-017/30
CITED PATENTS (EP B): EP 306197 A; EP 560543 A
CITED REFERENCES (EP B):
  INTELLECTUAL LEVERAGE, SAN FRANCISCO, FEB. 25 - MAR. 1, 1991, no. CONF.
    36, 25 February 1991, INSTITUTE OF ELECTRICAL AND ELECTRONICS
    ENGINEERS, pages 105-109, XP000293859 LESLIE H: "OPTIMIZING PARALLEL
    QUERY PLANS AND EXECUTION";

ABSTRACT EP 723238 A1
    A database computer system includes memory, residing in a plurality of
interconnected computer nodes, for storing database tables. Each database
table has a plurality of columns, a primary key index based on a
specified subset of the columns, and an associated table schema. At
least a subset of the database tables are partitioned into a plurality
of partitions, each partition storing records having primary key values
in a primary key range distinct from the other partitions. A transaction
manager generates and stores an audit trail, each audit entry denoting a
database table record event, such as an addition, deletion or alteration
of a specified database table record in a specified one of said database
tables. Four online data definition procedures allow the structure of a
database table to be altered while the database table remains available
to execution of transactions, with minimal impact of the availability of
the database table for transaction execution. The four online data
definition procedures are a move partition procedure, a split partition
procedure, a move partition boundary procedure, and a create new index
procedure. Each of these online procedures has three or four phases of
execution. In a first phase, records of a table partition or the entire
table are accessed using read only access, so as to generate a new
partition, move records between two partitions, or to create a new
index. In a second phase, audit trail entries are used to clean up the
data structures created during the first phase. In a third phase, access
to the database table is briefly locked while audit trail entries
created after the second phase are used to make final changes to the
data structures created during the first phase, and while the database
table schema is updated to reflect the changes to the database table

produced.   (see image in original document)
ABSTRACT WORD COUNT: 338
NOTE:
   Figure number on first page: 1
LEGAL STATUS (Type, Pub Date, Kind, Text):
   Change: 000823 A1 Title of invention (German) changed: 20000706
   Examination: 20000112 A1 Date of dispatch of the first examination
                                   report: 19991129
   Lapse: 040414 B1 Date of lapse of European Patent in a
                                   contracting state (Country, date): SE
                                   20011219,
   Grant: 010919 B1 Granted patent
   Change: 001004 A1 Title of invention (French) changed: 20000811
   Change: 001004 A1 Title of invention (German) changed: 20000811
   Change: 000823 A1 Title of invention (French) changed: 20000706
   Assignee: 001129 A1 Transfer of rights to new applicant: Compaq
                                   Computer Corporation (687790) 20555 S.H. 249
                                   Houston, Texas 77070-2698 US
   Change: 001129 A1 Legal representative(s) changed 20001011
   Oppn None: 020911 B1 No opposition filed: 20020620
   Application: 960724 A1 Published application (A1with Search Report
                                   ;A2without Search Report)
   Examination: 970312 A1 Date of filing of request for examination:
                                   970108
LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:
Available Text   Language   Update   Word Count
        CLAIMS A   (English)   EPAB96   1030
        CLAIMS B   (English)   200138   2545
        CLAIMS B   (German)   200138   2415
        CLAIMS B   (French)   200138   3253
        SPEC A   (English)   EPAB96   7503
        SPEC B   (English)   200138   7708
Total word count - document A   8534
Total word count - document B   15921
Total word count - documents A + B   24455

...SPECIFICATION path to the database table by ordering data according to
   the values in any specified **set** of **columns** . That **ordering** is
   represented by an "Alternate **Index** ," which is typically implemented as
   a separate data structure from the associated database table.
      Figure...

...SPECIFICATION path to the database table by ordering data according to
   the values in any specified **set** of **columns** . That **ordering** is
   represented by an "Alternate **Index** ," which is typically implemented as
   a separate data structure from the associated database table.
      Figure...

DIALOG(R)File 348:EUROPEAN PATENTS
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00599850
Entity-relation database
Entity-relation Datenbank
Base de donnees du type a relations entre entites
PATENT ASSIGNEE:
  AUTOMATED TECHNOLOGY ASSOCIATES Inc., (1502231), 8888 Keystone Crossing,
    Suite 600, Indianapolis, Indiana 46240, (US), (Proprietor designated
    states: all)
INVENTOR:
  Layden, John E., 8829 Green Branch Lane, Indianapolis, Indiana 46256,
    (US)
  Pearson, Thomas A., 9818 Gulfstream Court, Fishers, Indiana 46038, (US)
  Layden, David J., 10410 East 79th Street, Indianapolis, Indiana 46236,
    (US)
LEGAL REPRESENTATIVE:
  Adkins, Michael et al (42842), Withers & Rogers, Goldings House, 2 Hays
    Lane, London SE1 2HW, (GB)
PATENT (CC, No, Kind, Date): EP 583108   A2   940216 (Basic)
                              EP 583108   A3   940608
                              EP 583108   B1   020123
APPLICATION (CC, No, Date):   EP 93305969 930728;
PRIORITY (CC, No, Date): US 922491 920730
DESIGNATED STATES: AT; BE; CH; DE; DK; ES; FR; GB; GR; IE; IT; LI; LU; MC;
  NL; PT; SE
INTERNATIONAL PATENT CLASS (V7): G06F-017/30; G06F-012/08
CITED PATENTS (EP A): EP 389151 A; EP 114944 A
CITED PATENTS (EP B): EP 114944 A; EP 389151 A
CITED REFERENCES (EP A):
  IBM TECHNICAL DISCLOSURE BULLETIN vol. 20, no. 7 , December 1977 , NEW
    YORK US pages 2829 - 2831 D. CHOY ET AL. 'Mechanism for generating
    unclustered link structures in a relational database system'
  CONFERENCE ON ENTITY-RELATIONSHIP APPROCH TO SYSTEMS ANALYSIS AND DESIGN
    10 December 1979 , LOS ANGELES, US page 379 P. TING ET AL. 'An entity
    relationship model based on linked relations'
  IBM TECHNICAL DISCLOSURE BULLETIN vol. 31, no. 6 , November 1988 , NEW
    YORK US pages 328 - 330 'Root Table - Sub Table concept in panels'
  IEEE TRANSACTIONS ON SOFTWARE ENGINEERING vol. 15, no. 9 , September 1989
    , NEW YORK US pages 1120 - 1129 A. MALHOTRA ET AL. 'An
    Entity-Relationship Programming Language'
  ACM TRANSACTIONS ON DATABASE SYSTEMS vol. 9, no. 4 , December 1984 , NEW
    YORK US pages 503 - 525 K. ELHARDT ET AL. 'A Database Cache for High
    Performance and Fast Restart in Database Systems';
CITED REFERENCES (EP B):
  IBM TECHNICAL DISCLOSURE BULLETIN vol. 20, no. 7 , December 1977 , NEW
    YORK US pages 2829 - 2831 D. CHOY ET AL. 'Mechanism for generating
    unclustered link structures in a relational database system'
  CONFERENCE ON ENTITY-RELATIONSHIP APPROCH TO SYSTEMS ANALYSIS AND DESIGN
    10 December 1979 , LOS ANGELES, US page 379 P. TING ET AL. 'An entity
    relationship model based on linked relations'
  IBM TECHNICAL DISCLOSURE BULLETIN vol. 31, no. 6 , November 1988 , NEW
    YORK US pages 328 - 330 'Root Table - Sub Table concept in panels'
  IEEE TRANSACTIONS ON SOFTWARE ENGINEERING vol. 15, no. 9 , September 1989
    , NEW YORK US pages 1120 - 1129 A. MALHOTRA ET AL. 'An
    Entity-Relationship Programming Language'
  ACM TRANSACTIONS ON DATABASE SYSTEMS vol. 9, no. 4 , December 1984 , NEW
    YORK US pages 503 - 525 K. ELHARDT ET AL. 'A Database Cache for High
    Performance and Fast Restart in Database Systems';

ABSTRACT EP 583108 A2
    An entity-relation database is disclosed to include a plurality of
entity fields containing arrays of data elements, the data elements being

related to each other in predefined sets, with each predefined set
including data elements in at least two of the entity fields. At least
one linked list defines the relationship between data elements between
each of the predefined sets and provides a means for retrieving all of
the elements of any selected predefined set from the two entity fields.
The linked list consists of two distinct portions, namely, a head portion
associated with each member of one entity field and a continuation
portion associated with each member of another entity field, while each
entry consists of a pair of addresses thereby forming a doubly linked
list.
ABSTRACT WORD COUNT: 129
NOTE:
   Figure number on first page: NONE

LEGAL STATUS (Type, Pub Date, Kind, Text):
   Change: 000920 A2 International Patent Classification changed:
                                   20000803
   Application: 940216 A2 Published application (A1with Search Report
                                   ;A2without Search Report)
   Lapse: 040922 B1 Date of lapse of European Patent in a
                                   contracting state (Country, date): AT
                                   20020123, BE 20020123, CH 20020123, LI
                                   20020123, DE 20020424, DK 20020423, ES
                                   20020730, GR 20020123, IE 20020729, LU
                                   20020728, NL 20020123, PT 20020423, SE
                                   20020423,
   Lapse: 031105 B1 Date of lapse of European Patent in a
                                   contracting state (Country, date): AT
                                   20020123, BE 20020123, CH 20020123, LI
                                   20020123, DE 20020424, DK 20020423, GR
                                   20020123, IE 20020729, NL 20020123, PT
                                   20020423, SE 20020423,
   Lapse: 030723 B1 Date of lapse of European Patent in a
                                   contracting state (Country, date): AT
                                   20020123, BE 20020123, CH 20020123, LI
                                   20020123, DE 20020424, GR 20020123, NL
                                   20020123, PT 20020423, SE 20020423,
   Lapse: 030226 B1 Date of lapse of European Patent in a
                                   contracting state (Country, date): AT
                                   20020123, BE 20020123, CH 20020123, LI
                                   20020123, NL 20020123, PT 20020423, SE
                                   20020423,
   Lapse: 030205 B1 Date of lapse of European Patent in a
                                   contracting state (Country, date): BE
                                   20020123, CH 20020123, LI 20020123, PT
                                   20020423, SE 20020423,
   Lapse: 030102 B1 Date of lapse of European Patent in a
                                   contracting state (Country, date): CH
                                   20020123, LI 20020123, SE 20020423,
   Grant: 020123 B1 Granted patent
   Change: 001102 A2 Title of invention (German) changed: 20000912
   Lapse: 020911 B1 Date of lapse of European Patent in a
                                   contracting state (Country, date): SE
                                   20020423,
   Oppn None: 030115 B1 No opposition filed: 20021024
   Lapse: 030219 B1 Date of lapse of European Patent in a
                                   contracting state (Country, date): BE
                                   20020123, CH 20020123, LI 20020123, NL
                                   20020123, PT 20020423, SE 20020423,
   Lapse: 030507 B1 Date of lapse of European Patent in a
                                   contracting state (Country, date): AT
                                   20020123, BE 20020123, CH 20020123, LI
                                   20020123, GR 20020123, NL 20020123, PT
                                   20020423, SE 20020423,
   Lapse: 031015 B1 Date of lapse of European Patent in a

```
                              contracting state (Country, date):  AT
                              20020123, BE 20020123, CH 20020123, LI
                              20020123, DE 20020424, GR 20020123, IE
                              20020729, NL 20020123, PT 20020423, SE
                              20020423,
Lapse:                040121 B1 Date of lapse of European Patent in a
                              contracting state (Country, date):  AT
                              20020123, BE 20020123, CH 20020123, LI
                              20020123, DE 20020424, DK 20020423, ES
                              20020730, GR 20020123, IE 20020729, NL
                              20020123, PT 20020423, SE 20020423,
Search Report:        940608 A3 Separate publication of the European or
                              International search report
Change:               940608 A2 Obligatory supplementary classification
                              (change)
Examination:          950125 A2 Date of filing of request for examination:
                              941130
Examination:          980304 A2 Date of despatch of first examination report:
                              980120
LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:
Available Text  Language     Update      Word Count
     CLAIMS A   (English)    EPABF2      1746
     CLAIMS B   (English)    200204      1138
     CLAIMS B   (German)     200204      1002
     CLAIMS B   (French)     200204      1309
     SPEC A     (English)    EPABF2      7810
     SPEC B     (English)    200204      7865
Total word count - document A         9558
Total word count - document B         11314
Total word count - documents A + B    20872
```

...CLAIMS system according to claim 1 further comprising a plurality of binary sort tree indexes for **indexing** the data elements of at least **some** of the entity **fields** into **ordered** arrays, each binary **sort** tree **index** covering only a single entity field and including a searchable network of integers arranged in...

00571754
Computer user interface for relating key and index properties to database table columns.
Rechnerbenutzerschnittstelle, um Zeiger- und Indexeigenschaften mit Kolonnen von Datenbanktabellen zu assozieren.
Interface utilisateur d'ordinateur pour associer des proprietes pointeurs et index a des colonnes dans des tables de bases de donnees.
PATENT ASSIGNEE:
  International Business Machines Corporation, (200120), Old Orchard Road, Armonk, N.Y. 10504, (US), (applicant designated states: AT;BE;CH;DE;ES;FR;GB;IT;LI;NL;SE)
INVENTOR:
  Li, Shih-Gong, 9402 Mystic Oaks Trail, Austin, Texas 78750, (US)
  Schrader, Theodore Jack London, 3101 Shoreline Drive, Apt. 1936, Austin, (US)
LEGAL REPRESENTATIVE:
  Burt, Roger James, Dr. (52152), IBM United Kingdom Limited Intellectual Property Department Hursley Park, Winchester Hampshire SO21 2JN, (GB)
PATENT (CC, No, Kind, Date): EP 560543 A2 930915 (Basic)
                              EP 560543 A3 931118
APPLICATION (CC, No, Date):   EP 93301703 930305;
PRIORITY (CC, No, Date): US 848496 920309
DESIGNATED STATES: AT; BE; CH; DE; ES; FR; GB; IT; LI; NL; SE
INTERNATIONAL PATENT CLASS (V7): G06F-015/40;

ABSTRACT EP 560543 A2
    A user interface for creating or changing the structure of a relational database having multiple tables linked by keys and arranged by indices. In one form, the invention contemplates the juxtaposed depiction on a computer video display of a matrix defining the structure of a table with one or more matrices defining the linking relationships between selected columns from that and related tables. Selection and movement through the data structure is accomplished by mouse actuated cursor. Referential integrity among the database tables is maintained through the use of primary and foreign keys. The relationships of the keys and indices to the columns of the tables are clearly represented in matrix format windows which appear concurrently with table column property information. (see image in original document)
ABSTRACT WORD COUNT: 127

LEGAL STATUS (Type, Pub Date, Kind, Text):
Application:	930915 A2	Published application (A1with Search Report ;A2without Search Report)
Change:	931006 A2	Representative (change)
Search Report:	931118 A3	Separate publication of the European or International search report
Examination:	940302 A2	Date of filing of request for examination: 931227
Withdrawal:	960612 A2	Date on which the European patent application was withdrawn: 960423

LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	EPABF1	273
SPEC A	(English)	EPABF1	7153
Total word count - document A			7426
Total word count - document B			0
Total word count - documents A + B			7426

...SPECIFICATION for the Index Key and Foreign Key matrices. As shown, for

each Name in the **Index** List numerous **sets** of **Column** Name and **Sort Order** pairs are possible. In the case of the Foreign Key list, numerous column Names are...

15/5,K/11   (Item 11 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
(c) 2006 European Patent Office. All rts. reserv.

00543065
System and method for efficient execution of outer join operations.
**System und Verfahren zum effektiven Durchfuhren von ausseren
    Verbindungsoperationen.**
**Systeme et procede pour l'execution effective d'operations de jonction
    exterieures.**
PATENT ASSIGNEE:
  INTERNATIONAL BUSINESS MACHINES CORPORATION, (200125), Old Orchard Road,
    Armonk, N.Y. 10504, (US), (applicant designated states: DE;FR;GB)
INVENTOR:
  Cheng, Josephine Miu-Kung, 1248 Valley Quail Circle, San Jose, California
    95120, (US)
  Mohan, Chandrasekaran, 727 Portswood Drive, San Jose, California 95120,
    (US)
  Pirahesh, Mir Hamid, 1282 Quail Creek Circle, San Jose, California 95120,
    (US)
LEGAL REPRESENTATIVE:
  Burt, Roger James, Dr. (52152), IBM United Kingdom Limited Intellectual
    Property Department Hursley Park, Winchester Hampshire SO21 2JN, (GB)
PATENT (CC, No, Kind, Date): EP 529916 A2   930303 (Basic)
                              EP 529916 A3   931020
APPLICATION (CC, No, Date):   EP 92307535 920818;
PRIORITY (CC, No, Date): US 749088 910823
DESIGNATED STATES: DE; FR; GB
INTERNATIONAL PATENT CLASS (V7): G06F-015/40;
CITED PATENTS (EP A): EP 421408 A
CITED REFERENCES (EP A):
  2ND INTERNATIONAL SYMPOSIUM ON DATABASES IN PARALLEL AND DISTRIBUTED
    SYSTEMS 2 July 1990, DUBLIN, IRELAND pages 211 - 218 A. CHEN :
    'Outerjoin optimization in multidatabase systems'
  IEICE TRANSACTIONS vol. E73, no. 8, August 1990, TOKYO JP pages 1351 -
    1360 CHANG H. ET AL : 'Performance Evaluation of the Hybrid Join'
  SOFTWARE PRACTICE & EXPERIENCE. vol. 17, no. 10, October 1987, CHICHESTER
    GB pages 701 - 717 W. BULLERS, JR. : 'A Processing Algorithm for
    Master-Detail Records in a Relational Database';

ABSTRACT EP 529916 A2
    A data processing system and method are described for performing an
  outer join of database tables without sorting the inner table (T(sub 2)).
  The data processing system comprises: means for storing tables consisting
  of a plurality of tuples having multiple columns; means for performing an
  outer join operation on two such tables, one table being an inner table
  for the operation and the other table being an outer table, the outer
  table being ordered or **indexed** in a **sorted** sequence on a selected
  set of **columns** , the system being characterised by: means, responsive
  to values in the selected set of columns of the outer table, for
  determining a plurality of responsibility regions in the inner table such
  that every tuple in the inner table belongs to one and only one
  responsibility region; means for processing the tuples of the inner table
  in each responsibility region by outputting all tuples which belong to
  the responsibility region; whereby the system is capable of outputting
  all tuples of the inner table in the output of the join operation without
  requiring sorting of the inner table. Additional techniques for parallel
  execution of the outer join operation and for applying the outer join
  operation to subqueries are described. (see image in original document)
ABSTRACT WORD COUNT: 210

LEGAL STATUS (Type, Pub Date, Kind, Text):
 Application: 930303 A2 Published application (A1with Search Report
                          ;A2without Search Report)

...ABSTRACT operation and the other table being an outer table, the outer table being ordered or **indexed** in a **sorted** sequence on a selected **set** of **columns** , the system being characterised by: means, responsive to values in the selected set of columns...

00841992   **Image available**
STORAGE SYSTEM FOR STORING INFORMATION, AND SEARCH SYSTEM FOR SEARCHING INFORMATION
SYSTEME DE STOCKAGE D'INFORMATION ET SYSTEME DE RECHERCHE D'INFORMATION
Patent Applicant/Inventor:
  DE VRIES Frens Henri, Stadsring 244, NL-3811 HS Amersfoort, NL, NL
    (Residence), NL (Nationality)
Legal Representative:
  GRIEBLING O (agent), Exter Polak & Charlouis B.V., P.O. Box 3241, NL-2280
    GE Rijswijk, NL,
Patent and Priority Information (Country, Number, Date):
  Patent: WO 200175672 A1 20011011 (WO 0175672)
  Application: WO 2001NL214 20010315   (PCT/WO NL0100214)
  Priority Application: NL 1014652 20000315
Designated States:
(Protection type is "patent" unless otherwise stated - for applications
prior to 2004)
  AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ
  EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS
  LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ
  TM TR TT TZ UA UG US UZ VN YU ZA ZW
  (EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR
  (OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG   .
  (AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW
  (EA) AM AZ BY KG KZ MD RU TJ TM
Main International Patent Class (v7): G06F-017/30
Publication Language: English
Filing Language: Dutch
Fulltext Availability:
  Detailed Description
  Claims
Fulltext Word Count: 7894

English Abstract
  The invention describes a search system with a database which is
  classified into a plurality of levels. At each level, an overview of the
  classes which lie one level lower and can be accessed from the current
  class is projected onto a screen. The user can reach one of these classes
  which lie one level lower at any time by clicking on the correct location
  in the overview provided. The overviews are projected onto a stationary
  background, which is divided into boxes, so that the background remains
  the same when moving to a subsequent level. At all levels, the number of
  classes which can be reached therefrom is equal. If this number is equal
  to 20, the database can contain 160,000 subjects which can be accessed by
  means of only four mouse clicks.

French Abstract
  L'invention concerne un systeme de recherche fonctionnant avec une base
  de donnees dont la classification est realisee selon de nombreux niveaux.
  A chaque niveau, une vue d'ensemble des classes du niveau inferieur,
  auxquelles il est possible d'acceder a partir de la classe en cours, est
  projetee sur un ecran. L'utilisateur peut atteindre l'une de ces classes
  de niveau inferieur en cliquant sur l'emplacement correct de la vue
  d'ensemble projetee. Les vues d'ensemble sont projetees sur un
  arriere-plan fixe, divise en boites, de facon que l'arriere-plan reste le
  meme lorsqu'on change de niveau. A tous les niveaux, le nombre de classes
  auxquelles on peut avoir acces est le meme. Si ce nombre est egal a 20,
  la base de donnees peut contenir 100000 informations auxquelles on peut
  acceder au moyen de seulement quatre clics de souris.

Legal Status (Type, Date, Text)

Fulltext Availability:
  Detailed Description
  Claims

Detailed Description
...   main class index field 31 which includes the main
  class index NH, a sub-class **index** field 32 which includes the
  sub- **class** **index** NR, a **group** **index** **field** which includes the
  group
   index NG, and a text field 38 which includes text which will be
  referred to as...

Claim
...   also comprises a group file with group records (30),
  each group record (30) comprising a **group** text field (38)
  and a predetermined number of classification index fields
  (31o, 32, 33),
  the...

...50) comprising a main class text
  field (58) and a predetermined number of classification
  index **fields** (51),
  the **number** of classification index **fields** (51) of the main
  class records (50) being less than the **number** of
   classification **index** **fields** (41, 42) of the sub- **class**
  records (40).

12 Storage system according to any one of claims 8-11,, in
which the **number** of **classification** **index** **fields** (21, 22,

23 24) of the subject records (20) is equal to four.

13 Storage...

00501652   **Image available**
AN INTEGRATED GRAPHICAL USER INTERFACE METHOD AND APPARATUS FOR MAPPING BETWEEN OBJECTS AND DATABASES
PROCEDE ET EQUIPEMENT RELATIFS A UNE INTERFACE GRAPHIQUE UTILISATEUR INTEGREE POUR MAPPAGES OBJETS/BASES DE DONNEES
Patent Applicant/Assignee:
  NG Tony Chun Tung,
  SHARMA Rahul,
  LEARMONT Timothy R,
Inventor(s):
  NG Tony Chun Tung,
  SHARMA Rahul,
  LEARMONT Timothy R,
Patent and Priority Information (Country, Number, Date):
  Patent: WO 9933004 A1 19990701
  Application: WO 98US27245 19981221   (PCT/WO US9827245)
  Priority Application: US 9768415 19971222; US 98106046 19980629
Designated States:
(Protection type is "patent" unless otherwise stated - for applications
prior to 2004)
  AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GD GE GH
  GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN
  MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG UZ VN YU ZW
  GH GM KE LS MW SD SZ UG ZW AM AZ BY KG KZ MD RU TJ TM AT BE CH CY DE DK
  ES FI FR GB GR IE IT LU MC NL PT SE BF BJ CF CG CI CM GA GN GW ML MR NE
  SN TD TG
Main International Patent Class (v7): G06F-017/30
Publication Language: English
Fulltext Availability:
  Detailed Description
  Claims
Fulltext Word Count: 9716

English Abstract
  A graphical user interface on a computer system is provided for
  displaying objects in an object-oriented application and data stored in
  tables of a database. The graphical user interface displays a class view
  corresponding to one or more classes in the object-oriented application
  that in turn corresponds to tables in the database and displays a table
  view having one or more tables in a database corresponding to classes in
  the object-oriented application. In addition, the graphical user
  interface also displays a combination table-and-class view having
  database elements from the database adjacent to the object-oriented
  elements from the object-oriented application.

French Abstract
  L'invention porte sur l'interface graphique utilisateur d'un systeme
  informatique servant a presenter des objets dans une application orientee
  objet et des donnees stockees dans les tables d'une base de donnees.
  L'interface graphique utilisateur affiche un synopsis de classes
  correspondant a une ou plusieurs classes de l'application orientee objet
  qui a son tour correspond a des tables de la base de donnees et presente
  le synopsis d'une ou plusieurs tables d'une base de donnees correspondant
  a des classes de l'application orientee objet. De plus, l'interface
  graphique utilisateur presente une combinaison de tables et de synopsis
  de classes comportant des elements de la base de donnees voisine des
  elements orientes objet de l'application orientee objet.

Fulltext Availability:
  Detailed Description

Detailed Description

... Index group tab I 1 16 enables a user to 5view, create, and edit an **index** group. The user crcates **index groups** by selecting **fields** in a **class** for **indexing** . **Index** groups are used to **index** columns in tables corresponding to the fields. The indexed columns increase the underlying database search...

```
Set     Items    Description
S1    5972671    COLUMN? ? OR FIELD? ?
S2      25283    (SET OR SETS OR GROUP? ? OR COLLECTION? ?)(3W)S1
S3      52081    (SOME OR SELECTION OR FEW OR NUMBER OR QUANTITY OR SEVERAL-
                 )(3W)S1
S4        975    (SORT? ? OR SORTED OR SORTING OR ORDER? ? OR ORDERED OR OR-
                 DERING OR ARRANGE? ? OR ARRANGING )(5N)(S2 OR S3)
S5       1485    (CATEGORI?E? ? OR CATEGORI?ING OR CATEGORY OR CATEGORIES OR
                 CATEGORI?ATION  OR CLASS OR CLASSES OR CLASSIFICATION OR CLA-
                 SSIFY OR CLASSIFIES OR CLASSIFIED OR CLASSIFYING)(5N)(S2 OR S-
                 3)
S6       9755    (MARK? ? OR MARKED OR MARKING OR FLAG? ? OR FLAGGED OR FLA-
                 GGING)(10N)S1
S7        326    (INDEX OR INDEXING OR INDEXED)(10N)(S2 OR S3)
S8        531    (MINI OR SECOND OR 2ND OR ANOTHER OR EXTRA OR SUB OR AUXIL-
                 IARY OR SUPPLEMENTARY OR SUB)()INDEX
S9          0    (S4 OR S5) AND S6 AND (S7 OR S8)
S10        36    (S4 OR S5) AND (S7 OR S8)
S11        32    S10 NOT PY>2003
S12        21    RD  (unique items)
File    8:Ei Compendex(R) 1970-2006/Feb W2
           (c) 2006 Elsevier Eng.  Info. Inc.
File   35:Dissertation Abs Online 1861-2006/Jan
           (c) 2006 ProQuest Info&Learning
File   65:Inside Conferences 1993-2006/Feb W3
           (c) 2006 BLDSC all rts. reserv.
File    2:INSPEC 1898-2006/Feb W2
           (c) 2006 Institution of Electrical Engineers
File   94:JICST-EPlus 1985-2006/Nov W4
           (c)2006 Japan Science and Tech Corp(JST)
File  111:TGG Natl.Newspaper Index(SM) 1979-2006/Feb 13
           (c) 2006 The Gale Group
File    6:NTIS 1964-2006/Feb W1
           (c) 2006 NTIS, Intl Cpyrght All Rights Res
File  144:Pascal 1973-2006/Jan W5
           (c) 2006 INIST/CNRS
File  434:SciSearch(R) Cited Ref Sci 1974-1989/Dec
           (c) 1998 Inst for Sci Info
File   34:SciSearch(R) Cited Ref Sci 1990-2006/Feb W2
           (c) 2006 Inst for Sci Info
File   62:SPIN(R) 1975-2006/Jan W5
           (c) 2006 American Institute of Physics
File   99:Wilson Appl. Sci & Tech Abs 1983-2006/Jan
           (c) 2006 The HW Wilson Co.
File   95:TEME-Technology & Management 1989-2006/Feb W3
           (c) 2006 FIZ TECHNIK
File   56:Computer and Information Systems Abstracts 1966-2006/Jan
           (c) 2006 CSA.
File   57:Electronics & Communications Abstracts 1966-2006/Jan
           (c) 2006 CSA.
```

04373570   INSPEC Abstract Number: B89036619, C89030165
   Title: ANOVA model fitting via sparse matrix computations: a fast direct method

   Author(s): Ostrouchov, G.
   Author Affiliation: Math. Sci. Section, Oak Ridge Nat. Lab., TN, USA
   Abstract: A fast and storage-efficient direct method for fitting analysis-of-variance models to unbalanced data is presented. This method exploits sparsity and rank deficiency of the model matrix and is based on orthogonal Givens factorization of a **set** of sparse **columns** of the model matrix. A **class** of matrices generated by **index** sets is defined and used to obtain results on linear dependencies between columns of a model matrix and fill during factorization. These results are used to develop an algorithm for the selection, **ordering** , and symbolic factorization of a **set** of sparse **columns** of the model matrix. This facilitates a fast and storage-efficient numerical factorization and solution. A comparison to both a standard direct algorithm and a general-purpose sparse least-squares algorithm shows that the new algorithm reduces time and storage by orders of magnitude for large models and is competitive for small models. (20 Refs)
   Subfile: B C
   Descriptors: matrix algebra; statistical analysis
   Identifiers: ANOVA model; sparse matrix computations; fast; storage-efficient; fitting; analysis-of-variance models; orthogonal Givens factorization; model matrix; linear dependencies; numerical factorization
   Class Codes: B0240 (Probability and statistics); B0290H (Linear algebra) ; C1140 (Probability and statistics); C4140 (Linear algebra)

12/5/5   (Item 5 from file: 2)
DIALOG(R)File   2:INSPEC
(c) 2006 Institution of Electrical Engineers. All rts. reserv.

03639366   INSPEC Abstract Number: C86024982
 Title: Producing an index with your microcomputer database manager
   Author(s): Jonassen, D.
   Author Affiliation: Sch. of Educ., North Carolina Univ., Greensboro, NC,
USA
   Journal: Collegiate Microcomputer   vol.3, no.4   p.375-81
   Publication Date: Nov. 1985 Country of Publication: USA
   CODEN: CMICDL ISSN: 0731-4213
   Language: English   Document Type: Journal Paper (JP)
   Treatment: Practical (P)

   Abstract: The production of indexes has been greatly facilitated by
computers. Recently a number of sophisticated indexing programs have become
available for microcomputers, however these are normally expensive and
single-purpose. The article describes a procedure for using commonly
available database management systems for producing indexes on
microcomputers. After marking the text to be **indexed** , the indexer needs
to **set** up a three- **field** database, type in the entries, **sort** the
database on all three fields, and finally configure and print out a report
of the index. This is another of many useful applications of perhaps the
most useful utility available for microcomputers. (3 Refs)
   Subfile: C
   Descriptors: database management systems; indexing; microcomputer
applications; sorting
   Identifiers: microcomputer applications; database manager; indexing;
database management systems; three-field database
   Class Codes: C6130 (Data handling techniques); C6160 (Database
management systems (DBMS)); C7240 (Information analysis and indexing)

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Set       Items    Description
S1      5452403    COLUMN? ? OR FIELD? ?
S2        49762    (SET OR SETS OR GROUP? ? OR COLLECTION? ?)(3W)S1
S3       122804    (SOME OR SELECTION OR FEW OR NUMBER OR QUANTITY OR SEVERAL-
                   )(3W)S1
S4         1938    (SORT? ? OR SORTED OR SORTING OR ORDER? ? OR ORDERED OR OR-
                   DERING OR ARRANGE? ? OR ARRANGING )(5N)(S2 OR S3)
S5         6270    (CATEGORI?E? ? OR CATEGORI?ING OR CATEGORY OR CATEGORIES OR
                   CATEGORI?ATION  OR CLASS OR CLASSES OR CLASSIFICATION OR CLA-
                   SSIFY OR CLASSIFIES OR CLASSIFIED OR CLASSIFYING)(5N)(S2 OR S-
                   3)
S6        36057    (MARK? ? OR MARKED OR MARKING OR FLAG? ? OR FLAGGED OR FLA-
                   GGING)(10N)S1
S7          849    (INDEX OR INDEXING OR INDEXED)(10N)(S2 OR S3)
S8         2849    (MINI OR SECOND OR 2ND OR ANOTHER OR EXTRA OR SUB OR AUXIL-
                   IARY OR SUPPLEMENTARY OR SUB)()INDEX
S9            1    (S4 OR S5)(30N) S6 (30N)(S7 OR S8)
S10          48    (S4 OR S5)(30N)(S7 OR S8)
S11          47    S10 NOT PY>2003
S12          39    RD  (unique items)
File  88:Gale Group Business A.R.T.S. 1976-2006/Feb 14
         (c) 2006 The Gale Group
File 369:New Scientist 1994-2006/Aug W4
         (c) 2006 Reed Business Information Ltd.
File 160:Gale Group PROMT(R) 1972-1989
         (c) 1999 The Gale Group
File 635:Business Dateline(R) 1985-2006/Feb 18
         (c) 2006 ProQuest Info&Learning
File  15:ABI/Inform(R) 1971-2006/Feb 20
         (c) 2006 ProQuest Info&Learning
File  16:Gale Group PROMT(R) 1990-2006/Feb 20
         (c) 2006 The Gale Group
File   9:Business & Industry(R) Jul/1994-2006/Feb 16
         (c) 2006  The Gale Group
File  13:BAMP 2006/Feb W2
         (c) 2006  The Gale Group
File 810:Business Wire 1986-1999/Feb 28
         (c) 1999 Business Wire
File 610:Business Wire 1999-2006/Feb 21
         (c) 2006 Business Wire.
File 647:CMP  Computer Fulltext 1988-2006/Mar W1
         (c) 2006 CMP Media, LLC
File  98:General Sci Abs 1984-2004/Dec
         (c) 2005 The HW Wilson Co.
File 148:Gale Group Trade & Industry DB 1976-2006/Feb 20
         (c)2006 The Gale Group
File 634:San Jose Mercury  Jun 1985-2006/Feb 18
         (c) 2006 San Jose Mercury News
File 275:Gale Group Computer DB(TM) 1983-2006/Feb 20
         (c) 2006 The Gale Group
File  47:Gale Group Magazine DB(TM) 1959-2006/Feb 20
         (c) 2006 The Gale group
File  75:TGG Management Contents(R) 86-2006/Feb W2
         (c) 2006 The Gale Group
File 636:Gale Group Newsletter DB(TM) 1987-2006/Feb 20
         (c) 2006 The Gale Group
File 624:McGraw-Hill Publications 1985-2006/Feb 21
         (c) 2006 McGraw-Hill Co. Inc
File 484:Periodical Abs Plustext 1986-2006/Feb W2
         (c) 2006 ProQuest
File 613:PR Newswire 1999-2006/Feb 21
         (c) 2006 PR Newswire Association Inc
File 813:PR Newswire 1987-1999/Apr 30
         (c) 1999 PR Newswire Association Inc
File 141:Readers Guide 1983-2004/Dec
```

12/3,K/5   (Item 5 from file: 88)
DIALOG(R)File 88:Gale Group Business A.R.T.S.
(c) 2006 The Gale Group. All rts. reserv.

01606220   SUPPLIER NUMBER: 03435147
Files & Folders: functional and flexible. (evaluation)
Poor, Alfred
PC Magazine, v3, p64(1)
Sept 18, 1984
DOCUMENT TYPE: evaluation   LANGUAGE: English   RECORD TYPE: Fulltext
WORD COUNT: 678   LINE COUNT: 00058

...   also specify up to 125 fields as sort keys. Files & Folders uses a
B-tree **index** system, so you can have your file **sorted** on a **number** of
different **fields** at one time.
       The manual is one of the package's weakest points. It has...

12/3,K/9   (Item 1 from file: 16)
DIALOG(R)File 16:Gale Group PROMT(R)
(c) 2006 The Gale Group. All rts. reserv.

06898610   Supplier Number: 58378565 (USE FORMAT 7 FOR FULLTEXT)
**Virage, Obvious handle multimedia on the Web.(Internet World trade show, in
  New York)(Industry Trend or Event)**
Cavanagh, Luke
The Seybold Report on Internet Publishing, v4, n3, pNA
Nov, 1999
Language: English   Record Type: Fulltext
Document Type: Newsletter; Trade
Word Count: 952

...   to these two products, Video Search Tools, that allows the
administration of large storehouses of **indexed** video. It can help **sort**
results in a **number** of **fields** , define customized searches and can be
customized to integrate with pre-existing systems.
      Converging for...

1 12/3,K/11   (Item 1 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB
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08263462   SUPPLIER NUMBER: 17529098   (USE FORMAT 7 OR 9 FOR FULL TEXT)
**A way to weave an untangled Web page.(ZyLab's ZyIndex for Internet Web
   authoring software) (Software Review)(Evaluation)**
Rapoza, Jim
PC Week, v12, n44, p98(1)
Nov 6, 1995
DOCUMENT TYPE: Evaluation   ISSN: 0740-1604   LANGUAGE: English
RECORD TYPE: Fulltext; Abstract
WORD COUNT: 1063   LINE COUNT: 00084

...   s WordPerfect, and Xyquest's XyWrite, as well as basic ASCII files.
After building the **index** , we used ZyIndex to **set** up **category   fields**
and save common searches (which ZyLAB calls "Concepts") so Web users could
perform them quickly...

12/3,K/13   (Item 3 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB
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06461129   SUPPLIER NUMBER: 13746250   (USE FORMAT 7 OR 9 FOR FULL TEXT)
Stayin' alive. (Borland International Inc.'s dBASE IV 2.0 data base
  management system) (Software Review) (includes related articles on dBASE
  IV for Windows, on competitors and on satisfaction of complaints about
  version 1.5)(Cover Story) (Evaluation)
Evans, Phil
PC User, n209, p32(5)
April 21, 1993
DOCUMENT TYPE: Evaluation   ISSN: 0263-5720   LANGUAGE: ENGLISH
RECORD TYPE: FULLTEXT; ABSTRACT
WORD COUNT: 2962   LINE COUNT: 00222

...   staggering. The bulk of my testing was done on a table containing
295,000 records. **Sorting** that table on one of **several   indexed   fields**
is so fast that I was unable to time it using a stopwatch. The longest...

12/3,K/16   (Item 6 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB
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04492736   SUPPLIER NUMBER: 08236721   (USE FORMAT 7 OR 9 FOR FULL TEXT)
Glossary of frequently used technical terms. (glossary)
Laserdisk Professional, v3, n1, p51(4)
Jan, 1990
DOCUMENT TYPE: glossary   ISSN: 0896-4149   LANGUAGE: ENGLISH
RECORD TYPE: FULLTEXT
WORD COUNT: 2650   LINE COUNT: 00203

...   output flexibility favors the SEGMENTED FILE, since a record can be
re-composed with any **set** of **FIELDS** in any **order** .
      GLOBAL **INDEX**
      A composite **index** formed from all of the FIELD INDEXES plus
searchable terms from untagged sections of the...

12/3,K/24   (Item 8 from file: 275)
DIALOG(R)File 275:Gale Group Computer DB(TM)

01120248   SUPPLIER NUMBER: 00625488
PractiCorp Demonstrates New Program.
Computer Retail News, n101, p74
May 13, 1985
DOCUMENT TYPE: product announcement   ISSN: 0744-673X   LANGUAGE:
   ENGLISH   RECORD TYPE: ABSTRACT

...ABSTRACT: software can contain records up to 2,000 characters, access
three files at once, and **sort** and **index** any **number** of **fields** at one
time. PractiBase runs on IBM personal computers and compatibles. It sells
for $99...

12/3,K/35   (Item 10 from file: 239)
DIALOG(R)File 239:Mathsci

02126712 MR 90b#65085
ANOVA model fitting via sparse matrix computations: a fast direct method.

Ostrouchov, George (Engineering Physics and Mathematics Division, Oak
    Ridge National Laboratory, Oak Ridge, Tennessee, 37831)
  Corporate Source Codes: 1-ORNL-EP
  SIAM J. Sci. Statist. Comput.
  Society for Industrial and Applied Mathematics. Journal on Scientific
and Statistical Computing,   1989,   10,   no. 1,   58--71. ISSN: 0196-5204
CODEN: SIJCD4
  Language: English
  Subfile: MR (Mathematical Reviews)   AMS
  Abstract Length: MEDIUM (15 lines)
  Reviewer: Summary

...rank deficiency of the model matrix and is based on orthogonal Givens
factorization of a **set** of sparse **columns** of the model matrix. A **class**
of matrices generated by **index** sets is defined and used to obtain results
on linear dependencies between columns of a...

  01914527 MR 86g#12011
  Classes de Stiefel-Whitney de formes quadratiques et de representations galoisiennes reelles.
  Stiefel-Whitney classes of quadratic forms and real Galois
representations
  Kahn, Bruno (Department of Mathematics, Harvard University, Cambridge,
    02138, Massachusetts)
  Corporate Source Codes: 1-HRV
  Invent. Math.
  Inventiones Mathematicae,   1984,   78, no. 2, 223--256. ISSN:
0020-9910   CODEN: INVMBH
  Language: French
  Subfile: MR (Mathematical Reviews)   AMS
  Abstract Length: LONG (35 lines)
  Reviewer: Dejter, Italo Jose (1-PRRP)

  ...26#6228]. The author gives an expression for the real representations
and their Stiefel-Whitney **classes** , when G is the Galois **group** of a
field and H a closed subgroup of finite **index** . If F is a commutative
field of characteristic $\not=2,F\sb s$ a separable...

12/3,K/38   (Item 13 from file: 239)
DIALOG(R)File 239:Mathsci

01880914 MR 85k#81143
Group fields, gravity, and angular momentum.
Williams, J. G.
Finkelstein, David (Department of Mathematics, Georgia Institute of
  Technology, Atlanta, 30332, Georgia)
(Williams, Jeffrey George)
Corporate Source Codes: 1-GAIT
Internat. J. Theoret. Phys.
International Journal of Theoretical Physics,   1984,   23,   no. 1,
61--66. ISSN: 0020-7748   CODEN: IJTPBM
 Language: English
 Subfile: MR (Mathematical Reviews)   AMS
 Abstract Length: MEDIUM (16 lines)
 Reviewer: Dodson, C. T. J. (4-LANC)

...a light cone orientation in ${\bf R}\sp 3\times{\bf R}\sp 1$ and
indexed by the homotopy **class** of a **group**   **field** with $G={\rm
SO}(3)$. A similar argument extends the result to spacetimes like $S...